

FM120-M THRU FM1100-M

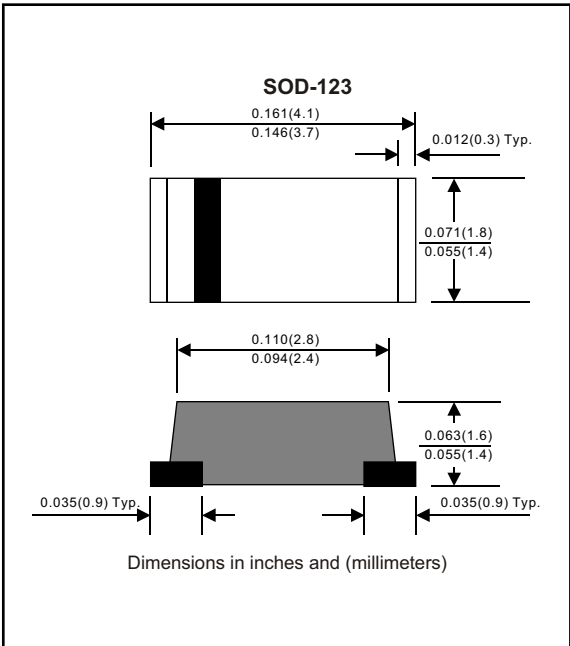
Silicon epitaxial planer type

Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O Utilizing Flame Retardant EpoxyMolding Compound.
- For surface mounted applications.
- Exceeds environmental standards of ML-S-19500 / 228
- Low leakage current

Mechanical data

Case : Molded plastic, JEDEC SOD-123 / MNISMA
Terminals : Solder plated, solderable per MIL-STD-750, Method 2026
Polarity : Indicated by cathode band
Mounting Position : Any
Weight : 0.04 gram



MAXIMUM RATINGS (AT T_A=25°C unless otherwise noted)

PARAMETER	CONDITIONS	Symbol	MIN.	TYP.	MAX.	UNIT
Forward rectified current	See Fig.1	I _O			1.0	A
Forward surge current	8.3ms single half sine-wave superimposed on rate load (JEDEC methode)	I _{FSM}			30	A
Reverse current	V _R = V _{RRM} T _A = 25°C	I _R			0.5	mA
	V _R = V _{RRM} T _A = 125°C				10	mA
Thermal resistance	Junction to ambient	R _{QJA}		98		°C / w
Diode junction capacitance	f=1MHz and applied 4vDC reverse voltage	C _J		120		pF
Storage temperature		T _{STG}	-55		+150	°C

SYMBOLS	MARKING CODE	V_{RRM}^{*1}	V_{RMS}^{*2}	V_R^{*3}	V_F^{*4}	Operating temperature (°C)
		(V)	(V)	(V)	(V)	
FM120-M	12	20	14	20	0.50	-55 to +125
FM130-M	13	30	21	30		
FM140-M	14	40	28	40		
FM150-M	15	50	35	50	0.70	-55 to +150
FM160-M	16	60	42	60		
FM180-M	18	80	56	80	0.85	
FM1100-M	10	100	70	100		

*1 Repetitive peak reverse voltage
*2 RMS voltage
*3 Continuous reverse voltage
*4 Maximum forward voltage

RATING AND CHARACTERISTIC CURVES (FM120-M THRU FM1100-M)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

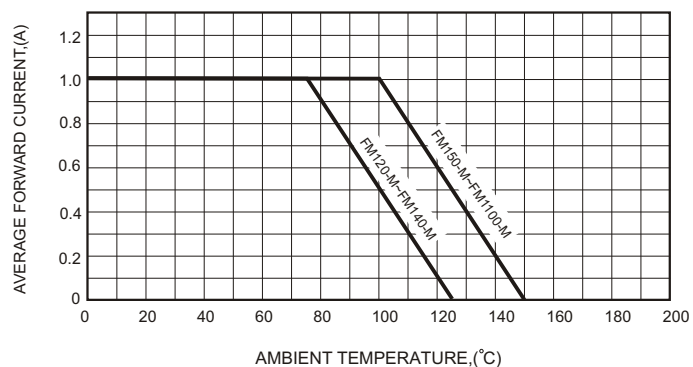


FIG.2-TYPICAL FORWARD CHARACTERISTICS

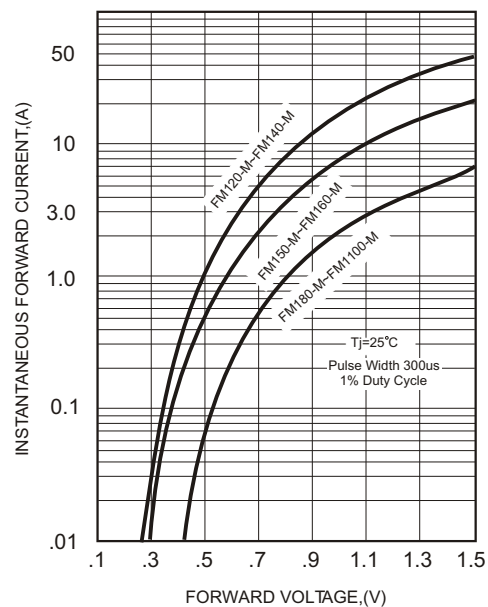


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

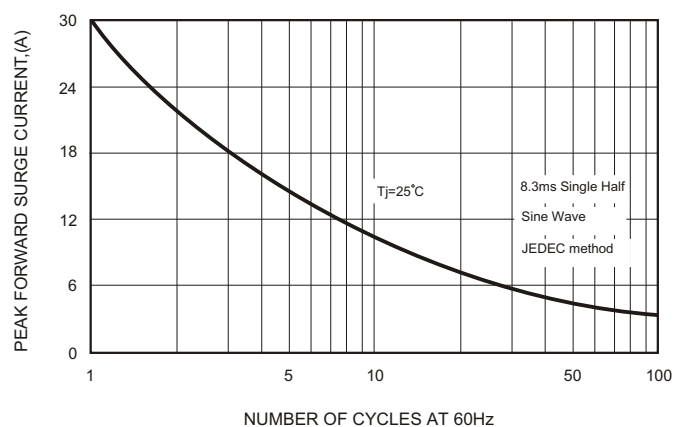


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

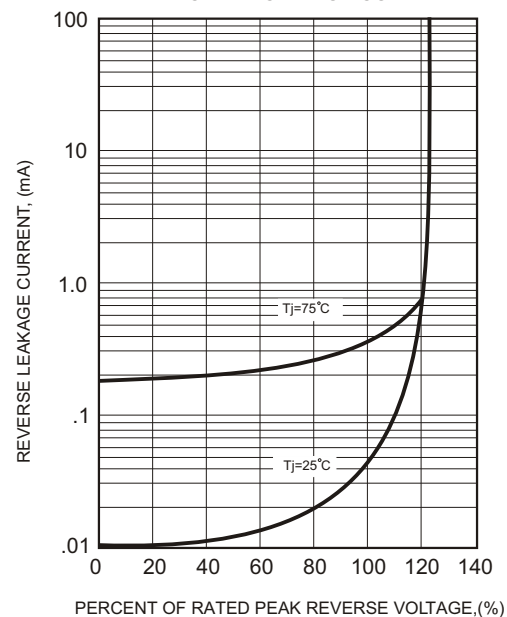


FIG.4-TYPICAL JUNCTION CAPACITANCE

